Facility name: Dayco a	rporation	/L.E. Cappent	ter
Location: Wharton	Borough	mours Cou	nty n
EPA Region:	<u>, </u>		
Person(s) in charge of the facility:			
			
Name of Reviewer:		Date:	
General description of the facility:	incomplement allocate	المراقع المساحة المساحة	LUCAL CALCADANCE (\$50 Service from Superior)
(For example: landfill, surface im facility; contamination route of mu	poundment, pile, con Bior concern; types o	tainer; types or nazaroous f information needed for ra	SUbstances; location of the
\		^	
Dayso Corpora	uon jl.c.(Defenter Con	many
gerates a wa			
in the borouge of	Marten, Mil	ris County!	Mujersey
The facility is loc			
Diver Pur to 19			
disposed in a			
feet of the Rocks			
Scores: S _M 46, (3) (S _{gw} =74.)	A CONTRACTOR OF THE CONTRACTOR	•	
S _{FE} =			
S _{DC} =			

FIGURE 1 HRS COVER SHEET

NTDEP What it removed 3500 cubid yeards y sludge and soil from the impoundment. However, the groundwater is contaminated with saylene and ethylbenzene. An engineering firm kined by the company stated that approximately 20,000 gallons greeoverable solvent is floating on the groundwater.

Sue Perselly Survey 25, 1985

346246

		Ground Water Route World	k Sheet			
	Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Max. Score	Ref. (Section)
1	Observed Release	0 (45)	1	45	45	3.1
		is given a score of 45, proceed to line is given a score of 0, proceed to line		•		
]	Route Characteristic Depth to Aquifer of Concern		2		6	3.2
	Net Precipitation Permeability of the Unsaturated Zone		1 1		3 3	Q
	Physical State	0 1 2 3	1		3	
3]	Containment	Total Route Characteristics S			15	
_	Contaminent	9 1 2 3	1		3	3.3
1	Waste Characteristic Toxicity/Persister Hazardous Waste Quantity	~	7 8 1	18	18	3.4
		Total Waste Characteristics S	core	23	26	
3	Targets Ground Water Use Distance to Neare Well/Population Served		3	9 35	9 40	3.5
		Total Targets Score	American Control of American	44	49	
]		uitiply 1 x 4 x 5 uitiply 2 x 3 x 4 x 5	45	540	57,330	
]	Divide line 6 by	57,330 and multiply by 100	Sgw-	79	. 43	

FIGURE 2
GROUND WATER ROUTE WORK SHEET

Sur Dussell

January 25, 1985

January 25, 1985

Rec. 10/29/86 R.C.

			Surface Water Route Work S	heet							
	Rating Factor		Assigned Value (Circle One)	Multi- plier	Score	Max. Score	Ref. (Section)				
1	Observed Release		6 45	1	0	45	4.1				
if observed release is given a value of 45, proceed to line 4. If observed release is given a value of 0, proceed to line 2.											
2	Route Characteris Facility Slope an Terrain	d Intervenin		1	1	3	4.2				
	1-yr. 24-hr. Räint Distance to Nea Water Physical State		0 1 2 3 0 1 2 3 0 1 2 3	1 2	2 6 3	3 6 3					
		То	etal Route Characteristics Scor	8	12	15					
3	Containment		0 1 2 (3)	1	3	3	4.3				
4	Waste Characteris Toxicity/Persiste Hazardous Wast Quantity	ence	0 3 6 9 12 15 18 0 1 2 3 4 5 6 7	1 8 1	18	18 8	4.4				
		To	tal Waste Characteristics Scor	8	23	28					
5	Targets Surface Water U Distance to a Se Environment Population Serve to Water Intake Downstream	nsitive	0 1 2 3 0 1 2 3 0 4 6 8 10 12 16 18 20 24 30 32 35 40	3 2 1	600	9 6 40	4.5				
			Total Targets Score		b	55					
_		multiply 1 ultiply 2	x 4 x 5 x 3 x 4 x 5		4968	64,350					
7	Divide line 6 by	64,350 and	multiply by 100		7.7	2					

FIGURE 7
SURFACE WATER ROUTE WORK SHEET

Air Route Work Sheet											
	Rating Factor				ed Valu e One)	е	Multi- plier	Score	Max. Score	Ref. (Section)	
1	Observed Release	.:	G	Aug.	4	5	1	0	45	5.1	
	Date and Location	ı :				CATALOGRAPHICAL STATES OF THE					
	Sampling Protocol) :									
		he S _a = 0 then proc				,		a va v. maama sus			
2	Waste Characteris	tics								5.2	
	Reactivity and incompatibility		0	1 2	3		1 -		3	:	
	Toxicity Hazardous Waste Quantity	. " •	0	1 2	3 4	5 6 7	3 B 1		9 8		
					•						
			Total Was	te Cha	aracter	stics Score			20		
3	Targets Population Within]	} 0		15 18		1		30	5.3	
	4-Mile Radius Distance to Sens	itive	f 21 :	24 27 1 2			2		6		
	Environment Land Use		0	1 , 2	3		1		3	_	
						· '.					
			Tot	ai Tar	gets S	core			39		
4	Multiply 1 x 2	× 3							35,100		
5	Divide line 4 by	y 35,100 ar	nd multipl	y by 1	100		Sa-	0			

FIGURE 9
AIR ROUTE WORK SHEET Sur Russell

January 25,1955

	s	S ²
Groundwater Route Score (Sgw)	74. 43	6309.12
Surface Water Route Score (S _{SW})	7.72	59.60
Air Route Score (S ₈)		
S _{gw} + S _{sw} + S _a ²		6368.72
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2}$		79.80
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2} / 1.73 = s_M =$		46.13

FIGURE 10
WORKSHEET FOR COMPUTING S_M

Sue Russell January 25, 1985 Partie 196 10/24/86

	Fi	ire a	ınd	Ex	plos	sior	W	ork S	Shee)t		- 180 m. 4	
Rating Factor				gne rcie			6			Multi		Max. Score	Ref. (Section)
Containment		1				•	3	. 		1		3	7.1
2 Waste Characteristics						-			•	. 1, 18 18,000			7.2
Direct Evidence	•	0			3					1		3	
Ignitability		0	1	2	3					1	٠.	3	
Reactivity Incompatibility		0	1	2						1		3	
Hazardous Waste Quantity	,	0	1	2	3	4	5	6	7	B. 1		3 8	
	Total	Was	ste	Cha	rac	teri	istic	s Sc	ore			20	
3 Targets													7.3
Distance to Nearest Population		Ö	1	2	3	4	5			1		5	
Distance to Nearest Building		0	1	2	3			•		1	• .	. 3	
Distance to Sensitive Environment		0	1	2	3			•		1		3	
Land Use		0	Ï	2	3			•		1	*	. 3	
Population Within 2-Mile Radius		0	1	2	3	4	5	٠		1		5	
Buildings Within 2-Mile Radius		0	1	2	3	4	5	•		1		5	٠
												•	•
									*				•
	*						٠						
· · · · · · · · · · · · · · · · · · ·													
		To	tal '	Tar	get	s S	core)		,		24	,
4 Multiply 1 x 2 x [3											1,440	
5 Divide line 4 by 1,440 and multiply by 100 SFE												<u> </u>	

FIGURE 11
FIRE AND EXPLOSION WORK SHEET

Direct Contact Work Sheet											
	Rating Factor			igne ircle		alue ne)		Multi- plier	Score	Max. Score	Ref. (Section)
1	Observed Incident)			.45		Ì		45	8.1
	If line 1 is 45, proceed to the 1 is 0, proceed to		_		18 %gra. 1 mon						
2	Accessibility	() 1	2	3			1		3	8.2
3	Containment) .	15				1		15	8.3
4	Waste Characteristics Toxicity) 1	2	3			5		15	8.4
[5]	Targets Population Within a 1-Mile Radius) 1	2	3	4 5		4		20	8.5
	Distance to a Critical Habitat) 1	2	3		•	4		12	.*
-			:								
[2]	If line 1 is 45, multiply					Score				32	<u> </u>
<u>6</u>	If line 1 is 45, multiply If line 1 is 0, multiply	2 × 3) ×	4	X T	5				21,600	
7	Divide line 6 by 21,600	and mult	iply	by 1	00			SDC -		- cost 20	

FIGURE 12
DIRECT CONTACT WORK SHEET

DOCUMENTATION RECORDS FOR HAZARD RANKING SYSTEM

INSTRUCTIONS: The purpose of these records is to provide a convenient way to prepare an auditable record of the data and documentation used to apply the Hazard Ranking System to a given facility. As briefly as possible summarize the information you used to assign the score for each factor (e.g., "Waste quantity a 4,230 drums plus 800 cubic yards of sludges"). The source of information should be provided for each entry and should be a bibliographic-type reference that will make the document used for a given data point easier to find. Include the location of the document and consider appending a copy of the relevant page(s) for ease in review.

FACILITY NAME: Dayco Corp./L.E. Carpenter Company

LOCATION: 170 North Main Street, Wharton, Morris County, N. J. STREET, MUNICIPALITY, COUNTY, NJ

Dayco Corporation/L.E. Carpenter Company operates a wall covering manufacturing facility in the borough of Wharton. Morris.

County, New Jersey. The facility is located in the flood plain of the Rockaway River. Prior to 1970, solid and liquid wastes were disposed in a subsurface impoundment within 200 feet of the Rockaway River. L.E. Carpenter reported to the NJDFP that it removed approximately 110,000 ft³ of sludge (4074 yds³) from the impoundment. However, the groundwater is contaminated with xylene and ethylbenzene along with other solvents. An engineering firm hired by the company stated that approximately 20,000 gallons of recoverable solvent is floating on the groundwater.

GROUND WATER ROUTE

I OBSERVED RELEASE

Contaminants decected (5 maximum):

No chemicals were detected in water samples collected

prom upgradient well #5. Downgradient wells #1, 2,3,

and 4 were contaminated with Ohylbenze and sylene.

Rectionale for ettributing the contaminants to the facility:

Sludge contained lead, butylbenzene, chloroporm, toluene, and pylene.

Appendix A. Sludge analysis and Snowndusta Analysis

2 ROUTE CHARACTERISTICS

Depth to Aquifer of Concern

Name/description of squifers(s) of concern: Unconsolidated Quaternary Aguiler Appendix Fand Appendix G

Depth(s) from the ground surface to the highest sessonal level of the saturated zone [water table(s)] of the squifer of concern:

Depth from the ground surface to the lowest point of waste disposal/ storage:



Net Precipitation

Hean annual or seasonal precipitation (list months for seasonal):

(Ref: HRS Users Manual, Figure 5)
Mean annual lake or seasonal evaporation (list months for seasonal):

(Ref: HRS Users Manual, Figure 4)
Net precipitation (subtract the above figures):

Permeability of Unsaturated Zone

Soil type in unsaturated sone:

(Ref:______)

Permeability associated with soil type:

(Ref:______

Physical State

Physical state of substances at time of disposal (or at present time for generated gases):

. . .

(Ref:

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Method with highest score:

WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated:

lead

chloworm tolume

butylbergene

Compound with highest score:

Chloroform Ton=3

HRS manual Uncontrolled Hayardous Waste Site Ranking System, A Weer's Manual

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if

approximately 29,000 pellous grecoverable solvent as fluation on the groundwater beneathenwood One site and 350 tuyes y studge Basis of estimating and/or computing waste quanti

20,000 sallons = 50 sallors per dreum = 400 dreums 350 cu yds. x 4 dreums per eu. yd. = 140 o dreums 1800 dreums *** Dereury 25,1905

hwg = 6 AP,0/29/86

5 TARGETS

Ground Water Use

Use(s) of aquifer(s) of concern within a 3-mile radius of the facility:

Sole sauce drinking water as designated by

Oppendix & Federal Register

Distance to Nearest We

Location of nearest well drawing from aquifer of concern or occupied building not served by a public water supply:

Wharton Public wells # 1 and 2.

appendix & and U.S.G.S & Quad map

Distance to above well or building:

Wharton wells land 2 4000 jest US6S Quad mas

Population Served by Ground Water Wells Within a 3-Mile Radius

Identified water-supply well(s) drawing from aquifer(s) of concern within a 3-mile radius and populations served by each:

Wharton - 5500 Dover - 22,000

appendix Dand memo from Bill Cramer, geologist Computation of land area irrigated by supply well(s) drawing from NJDEP aquifer(s) of concern within a 3-mile radius, and conversion to populacion (1.5 people per acre):

NIA

Total population served by ground water within a 3-mile radius:

27,500 = populations of whaton and Dover ...

See Russell

sures 25,1985

SURFACE WATER ROUTE

1 OBSERVED RELEASE

Contaminants detected in surface water at the facility or downhill from it (5 maximum):

Rationale for attributing the contaminants to the facility:

Z ROUTE CHARACTERISTICS

Facility Slope and Intervening Terrain

Average slope of facility in percent:

slope varies from plat to over 6% averages \$ 3 to 5%

Reference - facility map and USGS Quad Mass
Name/description of nearest downslope surface water:
Rockaway River

USGS Quad Map.

Average slope of terrain between facility and above-cited surface water body in percent:

site which has slope averaging between 3 and 5% a ominedictely adjacent to Rockaway River

specifity map and US65 Quald map

Is the facility located either totally or partially in surface water?

During flood conditions, the river submeyes One site

Is the facility completely surrounded by areas of higher elevation?

U.S.G.S. map

1-Year 24-Hour Rainfall in Inches

2.7 inches

HRS Manual
Distance to Nearest Downslope Surface Water

75 feet

Sitemap
Physical State of Wasca

Studge

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Highly viscous sludge with potentially insocial implementant with no presboard.

Observation by Brig Cunningham - NJDEP and Appendix B -

Diking potentially unsolved, and sidence of sludge movement indicates quat dike was breached in the past

Appendix and
Opservation by Greg
Cunningham - NJDEP

WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated

bensene lead Chlorgorm toluene

sylene

appendix A-Sludge Analysis

Compound with highest scot

Chloroform Pers=3

HRS Manual

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of O (Give a reasonable estimate even if quantity is above maximum):

350 cubic yards gsludge

(groundwates movement appears to be away from river, so solvent in wells not counted)

3 as is of estimating and/or computing vaste quantity:

3500 cu. yels. of material was removed from The impoundment area of which 85 to 90 percent to appeared to be soil.

Appendix B

5 TARGETS

Surface Water Use

Use(s) of surface water within 3 miles downstream of the hazardous

Recreational use of Rockausey River

appendix En Russell January 25, 1985

Is there tidal influence?

No

USGS Map

Distance to a Sensitive Environment

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

Distance to 5-acre (minimum) fresh-water wetland, if I mile or less:

MIA

Distance to critical habitat of an endangered species or national wildlife refuge, if I mile or less:

NIA

Population Served by Surface Water

Location(s) of water-supply intake(s) within 3 miles (free-flowing bodies) or I mile (static water bodies) downstream of the hazardous substance and population served by each intake:

Computation of land area irrigated by above-cited intake(s) and conversion to population (1.5 people per acre):

NIA

Total population served:

0

Name/description of mearest of above water bodies:

Rockanay River USBS Quad

Distance to above-cited intakes, measured in stream miles.

Sur Russell 985 January 25,1985 AIR ROUTE

Contaminants de	tected:	NO AIR DAT	ΓÄ		
	. • •	NO AIR DA	! n	•	
					•
•		•			•
Date and location	on of detec	tion of conten	sinente	• •	
	•			-	
			•		
	• •				
Methods used to	detect the	contaminants;	İ		
		•	·		
	•	•			•
•					•
		. •			
Rationale for at	tributing	the contaminar	ite to the ci		
			res co citie 81	.661	
		•			
	.•	•			
		* * *			
			•		•
2 WASTE CHARACT	ERISTICS		•		
Reactivity and I	necessihi	1 ë d			
V2470-0-10001	.iicompetivi	****			•
Most reactive co	apound:	ب			
					•
·					
(Ref:		-			
Most incompatibl	e pair of	compounds:			TRACTICAL SET TRACE
	•				
			•		
•					
(Ref:					

Facility name: Dayco (operation / L.E. Capenter
	Borough mours County n
EPA Region:	
Person(s) in charge of the facility:	
Name of Reviewer:	Debë:
General description of the facility: (For example: landfill, surface in facility: contamination route of m	poundment; pile, container; types of hazardous substances; location of the ajor concern; types of information needed for rating; agency action, etc.)
	Tron L. E. Carpenter Company
	Il covering manyacturing paciety
7	harton, Moris County, My Jersey
	ated in the flood plain of the locknessy
	970 sold and liquid unston were
disposed in a	sulsurface implement in this soo
peet of the Rocks	way River . L. E. Conjunter reported to the
Scores: S _M 46,/) (Sgw =74.	y\$ s _{sw} =7.72 s _a = 0)
S _{FE} =	
S _{DC} =	

FIGURE 1 HRS COVER SHEET

NTDEP that it removed 3500 cubid yeards y studge and soil from the impoundment. However, the groundwater is contaminated with saylene and ethylbenzene. An engineering firm kined by the company stated that approximately, 20,000 gallons greenerable solvent is floating on the groundwater.

Sur Russell groundwater.

January 25, 1905

January 25, 1905

,		*.	Ground Water Route Work Sho	eet			
	Rating Factor		Assigned Value (Circle One)	Multi- plier	Score	Max. Score	Ref. (Section)
1	Observed Release		0 (45)	1	45	45	3.1
		-	n a score of 45, proceed to line 2	-			
2	Route Characteristics Depth to Aquifer of		0 1 2 3	2		6	3.2
	Net Precipitation Permeability of the Unsaturated Zone	· .	0 1 2 3 0 1 2 3	1 1	÷	3	
	Physical State	· · ·	0 1 2 3	1		3	
			Total Route Characteristics Score			- 15	
3	Containment		0 1 2 3	1		3	3.3
4	Waste Characteristics Toxicity/Persistenc Hazardous Waste Quantity	8	0 3 8 9 12 15 18) 0 1 2 3 4 5 7	1 8 1	18	18 8	3.4
		د مشتر دد ر					
-		,	Total Waste Characteristics Score	•	23	26	
5	Targets Ground Water Use Distance to Neares Well / Population Served	: :	0 1 2 3 0 4 6 8 10 12 16 18 20 24 30 32 35 40	3 1	9 35	9 40	3.5
							• •
			Total Targets Score		44	49	
6	If line 1 is 45, multi-			45	540	57,330	
7	Divide line 6 by 5	7,330	and multiply by 100	s _{gw} -	79	. 43	

FIGURE 2
GROUND WATER ROUTE WORK SHEET

Sur Russell

January 25, 1985

January 25, 1985

Amangan Hatter

10/29/86 R.C.

		s	urface Water	Route Work Shee	rt			
	Rating Factor		Assigned (Circle (Multi- plier	Score	Max. Score	Ref. (Section)
1	Observed Release	•	0	45	1	0	45	4.1
	If observed releas	-						
2	Route Characteris Facility Slope ar Terrain	3 -	0 (1) 2 :		1	l	3	4.2
	1-yr. 24-hr. Rain Distance to Nea Water		0 1 2		1 2	2 6	3 6	
	Physical State	Tota	0 1 2 (3	cteristics Score	1	3	3 15	* .
3	Containment		0 1 2 (3)	1	3	3	4.3
4	Waste Characteris Toxicity/Persist Hazardous Wast Quantity	ence	0 3 6 8	12 15 18 1 4 3 6 7 8	1	18	18 8	4.4
	•	Tota	Waste Chare	cteristics Score	-	23	26	·
5	Targets Surface Water U Distance to a Se Environment	nsitive	& 1 @) 3	3 2	60	9 6	4.5
	Population Serve to Water Intake Downstream		(6) 4 6 12 16 18 24 30 32	8 10 20 35 40	1	0	40	٠.
			Total Targe	ts Score		G	55	
		multiply 1 x		(5		4968	64,350	
7	Divide line 6 by	y 64,350 and m	ultiply by 100)	S _{SW} =	7.7	2	

FIGURE 7
SURFACE WATER ROUTE WORK SHEET

		Air Route Work Sheet			
	Rating Factor	Assigned Value Multi (Circle One) plier		Max. Score	Ref. (Section)
1	Observed Release	9 45 1	0	45	5.1
	Date and Location:				and the second s
	Sampling Protocol:		and the same of		
		e Sa = 0. Enter on line 5 . hen proceed to line 2 .			
2	Waste Characteristi Reactivity and Incompatibility	0 1 2 3 1		3	5.2
	Toxicity Hazardous Waste Quantity	0 1 2 3 3 3 3 0 1 2 3 4 5 6 7 8 1		9 8	
				P	
	The same of the sa	Total Waste Characteristics Score		20	
3	Targets Population Within 4-Mile Radius Distance to Sensiti) 0 9 12 15 18 1 21 24 27 30 ve 0 1 2 3 2		30 6	5.3
	Environment Land Use	0 1 2 3		3	•
	- 12 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)			· .	
		Total Targets Score		39	
4	Multiply 1 x 2	x 3		35,100	
5	Divide line 4 by	35,100 and multiply by 100 Sa	0		

FIGURE 9
AIR ROUTE WORK SHEET Sur Russell

January 25,1965

	Š	s ²
Groundwater Route Score (Sgw)	79.43	6309.12
Surface Water Route Score (S _{SW})	7.72	59.60
Air Route Score (Sa)		
$s_{gw}^2 + s_{sw}^2 + s_a^2$		6368.72
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2}$		79.80
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2} / 1.73 = s_M =$		46.13

FIGURE 10 WORKSHEET FOR COMPUTING S_M

> Sue Russell January 25, 1985 Parker 10/24/86

		FI	re a	nd	Ext)108	ion	Wo	ork :	Shee	t			
	Rating Factor				gne rcle			•			Multi plier		Max. Score	Ref. (Section
1	Containment		1	•				3			1		3	7.1
2	Waste Characteristics								-		e i mana de mandes de la compansión de l	as at set 1 m		7.2
	Direct Evidence		Ģ			3					.1		3	
	Ignitability		. 0	1	2	3					1 -		3	
•	Reactivity		0	1	2	3					1	•	3	
	Incompatibility		0	1	_	3			-		. 1		3	
:	Hazardous Waste Quantity		0	1	2	3	4	5.	6	7	B 1		. 8	
						•			٠					
		·						•						
		Total	Was	ste	Cha	ırac	teri	stic	s S	core			20	
3	Targets													7.3
	Distance to Nearest Population		O	1	2	3	4	5			1		5	
	Distance to Nearest Building	* * * * * * * * * * * * * * * * * * * *	0	1	2	3					1		3	
	Distance to Sensitive Environment		0	1	2	3					.1	*	3	
	Land Use		Ö	1	2	3					1		, 3	
	Population Within 2-Mile Radius	.5	0	1	2	3	4	5			1,		5	et e
	Buildings Within 2-Mile Radius		0	1	2	3	4	5		· .·	1		5	
		3								:`				
					,		٠.							
		•												
٠.							•							
		• . •	*.					•						
-			To	tal	Tar	get	s S	con					24].
4	Multiply 1 x 2 x	3								,			1,440	
<u> </u>	Divide line 4 by 1,44	· · · · · ·							 -		SFE			-

FIGURE 11
FIRE AND EXPLOSION WORK SHEET

	Rating Factor		gned Value rcie One)	Multi- plier	Score	Max. Score	Ref. (Section)
1	Observed Incident	0	45	1		45	8.1
	If line 1 is 45, proceed to	- 7 1004		,			
2	Accessibility	0 1	2 3	1		3	8.2
3	Containment	0	15	1		15	8.3
<u> </u>	Waste Characteristics Toxicity	0 1	2 3	5	0.11	15	8.4
3	Targets Population Within a 1-Mile Radius Distance to a Critical Habitat	0 1	2 3 4 5	4		20 12	8.5
•							•
		Total	Targets Score		•• .	32	
6	If line 1 is 45, multiply If line 1 is 0, multiply	1 x 4 x	5			21,600	-

FIGURE 12
DIRECT CONTACT WORK SHEET

DOCUMENTATION RECORDS FOR HAZARD RANKING SYSTEM

INSTRUCTIONS: The purpose of these records is to provide a convenient way to prepare an auditable record of the data and documentation used to apply the Hazard Ranking System to a given facility. As briefly as possible summarize the information you used to assign the score for each factor (e.g., "Waste quantity = 4,230 drums plus 800 cubic yards of sludges"). The source of information should be provided for each entry and should be a bibliographic-type reference that will make the document used for a given data point easier to find. Include the location of the document and consider appending a copy of the relevant page(s) for ease in review.

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LOCATION: 170 North Main Street, Wharton, Morris County, N. J. STREET, MUNICIPALITY, COUNTY, NJ

Dayco Corporation/L.E. Carpenter Company operates a wall covering manufacturing facility in the borough of Wharton. Morris.

County, New Jersey. The facility is located in the flood plain of the Rockaway River. Prior to 1970, solid and liquid wastes were disposed in a subsurface impoundment within 200 feet of the Rockaway River. L.E. Carpenter reported to the NJDFP that it removed approximately 110,000 ft³ of sludge (4074 yds³) from the impoundment. However, the groundwater is contaminated with xylene and ethylbenzene along with other solvents. An engineering firm hired by the company stated that approximately 20,000 gallons of recoverable solvent is floating on the groundwater.

1 OBSERVED RELEASE

The chemicals were detected in water samples collected prom upgradient well #5. Downgradient wells #1, 2,3, and 4 were contaminated with strylpenze and sylene.

Rationale for attributing the contaminants to the facility:

Sludge contained lead, butylbengene, chloroporm, toluene,
and refere.

Appendix A. Sludge analysis and Snowdulater Analysis

2 ROUTE CHARACTERISTICS

Death to Adulter of Concern

Name/description of equifers(s) of concern: Unconsolidated Quaternary Aguiler Appendix Fand Appendix G

Depth(s) from the ground surface to the highest seasonal level of the saturated zone [water table(s)] of the aquifer of concern:

Depth from the ground surface to the lowest point of waste disposal/ storage:

Net Precipitation

Mean annual or seasonal precipitation (list months for seasonal):

(Ref: HRS Users Manual, Figure 5)

Mean annual lake or seasonal evaporation (list months for seasonal):

(Ref: HRS Users Manual, Figure 4)

Net precipitation (subtract the above figures):

Permeability of Unsaturated Zone

Soil type in unsaturated zone:

(Ref:______)

Physical State

Physical state of substances at time of disposal (or at present time for generated gases):

(Ref:

3 CONTAINMENT

Concainment

Method(s) of waste or leachate containment evaluated:

Method with highest score:

4 WASTÉ CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated:

lead

benseue chloworm tolume

pylehe butylbenzene

appendix A

Compound with highest score:

Chloryoum 10%=3
Pers=3

HRS manual Uncontrolled Hajardous Waste Site Ranking System, A User's Manual Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum):

approximately 20,000 pellons grecoverable Schrent as fluating on the groundwater beneatherwood the site and 350 cu yes y studge. To proceed y malination wood

Basis of estimating and/or computing waste quantity:

20,000 pallons : 50 pallono per drum = 400 drums 350 cu. yds. x 4 drums per eu. yd. = 140 o drums
1800 drums

1800 drums

paruory 25, 1905

AP, 1/29/86

hw9 = 6

5 TARGETS

Gr	ound	Wat	27	üse

Use(s) of aquifer(s) of concern within a 3-mile radius of the facility:

Sob sauce drinking water as designated by

appendix & Jederal Register

Distance to Nearest Well

Location of nearest well drawing from acuifer of concern or occupied building not served by a public water supply:

Wharton Public wells # 1 and 2.

appendix & and U.S.G.S to Quad map

Distance to above well or building:

Population Served by Ground Water Wells Within a 3-Mile Radius

Identified water-supply well(s) drawing from aquifer(s) of concern within a 3-wile radius and populations served by each:

Wharton - 5500 Dover - 22,000

Computation of land area irrigated by supply well(s) drawing from NJDEP aquifer(s) of concern within a 3-mile radius, and conversion to population (1.5 people per acre):

NIA

Total population served by ground water within a 3-mile radius:

27,500 = populations of Wharton and Dover ..

Sur Russell January 25,1985

Mark and approximation

1 OBSERVED RELEASE

Contaminants detected in surface water at the facility or downhill from it (5 maximum):

Recionale for economicants to the facility:

Z ROUTE CHARACTERISTICS

Facility Slope and Intervening Terrain

Average slope of facility in percent:

slope varies from plat do over 6%.
averages \$ 3 to 5%

Reference - facility map and USGS Quad map Name/description of nearest downslope surface water:

Rockaway River

USGS Quad Map.

Average slope of terrain between facility and above-cited surface water body in percent:

site which has slope averaging between 5 and 5h a minediately adjacent to Rockaway River

specifity map and US65 Quad map

Le the facility located either totally or partially in anserts.

During flood conditions, the river submeyes One site

Is the facility completely surrounded by areas of higher elevation?

U.S.G.S. map

1-Year 24-Hour Rainfall in Inches

2.7 inches

HRS Manual
Distance to Nearest Downslope Surface Water

75 feet Site map

Physical State of Waste

Studge

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Wighly viscous sludge with potentially insocial impoundment with no prestourd.

Observation by Brig Cunningham - NJDEP and Method with highest score:

Appendix B -

Diking potentially unsolved, and sidence of sludge movement indicates quat dike was breached in the past

Appendix and
Observation by Greg
Cunningham - NJDEP

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated

bensene lead chlorgerm toluene

appardin A-Sludge Analysis

Compound with highest scot

Chloroform Pers=3

IHRS Manual

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum):

350 cubic yards q sludge

(groundwater movement appears to be away from river so solvent in wells not counted)

Basis of estimating and/or computing waste quantity:

3500 cu yets of material was removed from The impoundment area of which of to 90 percent to appeared to be soil.

Appendix B

5 TARGETS

Surface Water Use

Use(s) of surface water within 3 miles downstream of the hazardous

Recreational use of Rockausey River

appendix E Russell January 25, 1985

Is there tidal influence?

No

USGS Map

Distance to a Sensitive Environment

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

N/A

Distance to 5-acre (minimum) fresh-water wetland, if I mile or less:

NIA

Distance to critical habitat of an endangered species or national wildlife refuge, if I mile or less:

NIA

Population Served by Surface Water

Location(s) of water-supply incake(s) within 3 miles (free-flowing bodies) or 1 mile (static water bodies) downstream of the hazardous substance and population served by each incake:

Computation of land area irrigated by above-cited intake(s) and conversion to population (1.5 people per acre):

NIA

Total population served:

0

Name/description of mearest of above water bodies:

Rockanay River USGS Quad

Distance to above-cited intakes, measured in stream miles.

Sur Russell 985 January 25,1985 AIR ROUTE

	1 OBSERVED RELEASE
	Conteminants detected:
	NO AIR DATA
	Date and location of detection of contaminants
	The state of a section of contaminants
	Methods used to detect the contaminents:
	Rationale for attributing the contaminants to the site:
•	
	2 WASTE CHARACTERISTICS
	Reactivity and Incompatibility
	$m{l}$
	Most reactive compound:
in the state of th	
درونها چهنوستار د ه و در	(Ref:
ئور، رحان	Most incompatible pair of compounds:
4.00	and a recompact of pair of compounds:
e le	ade ways for the second secon

National Priorities List Site

Hazardous waste site listed under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) "Superfund")

DAYCO CORP./L.E. CARPENTER CO. Wharton Borough, New Jersey

Dayco Corp./L.E. Carpenter Co. manufactures vinyl-coated wall coverings on a site of about 2 acres in Wharton Borough, Morris County, New Jersey. Prior to 1970, the company disposed of polyvinyl chloride sludge by burying it in drums. In January 1982, Dayco Corp./L.E. Carpenter Co. and the State entered into an Administrative Consent Order requiring the company to remove the sludge, study ground water contamination, and decontaminate ground water. Later in the year, the company removed approximately 4,000 cubic yards of sludge and soil in the rear of the property. In 1983, a private engineering firm hired by the company studied ground water and prepared a proposal to decontaminate it. The firm estimated that approximately 20,000 gallons of recoverable solvents are floating on the ground water beneath the site. Additional investigations are underway.

The facility is located in the floodplain of the Rockaway River, a recharge area for the unconsolidated Quaternary Aquifer, which is designated a sole source of drinking water for the Rockaway River Basin area. Dover Township wells and Wharton Borough wells serving 27,000 people are within 3 miles of the plant.